10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MSI1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11965a

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	O43347
Other Accession	Q8K3P4, Q61474, NP_002433
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19177
Calculated MW	39125
Antigen Region	67-93

Additional Information

Gene ID	4440
Other Names	RNA-binding protein Musashi homolog 1, Musashi-1, MSI1
Target/Specificity	This MSI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 67-93 amino acids from the N-terminal region of human MSI1.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MSI1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MSI1
Function	RNA binding protein that regulates the expression of target mRNAs at the translation level. Regulates expression of the NOTCH1 antagonist NUMB.

	Binds RNA containing the sequence 5'-GUUAGUUAGUUAGUU- 3' and other sequences containing the pattern 5'-[GA]U(1-3)AGU-3'. May play a role in the proliferation and maintenance of stem cells in the central nervous system (By similarity).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q61474}. Nucleus {ECO:0000250|UniProtKB:Q61474}
Tissue Location	Detected in fetal kidney, brain, liver and lung, and in adult brain and pancreas. Detected in hepatoma cell lines

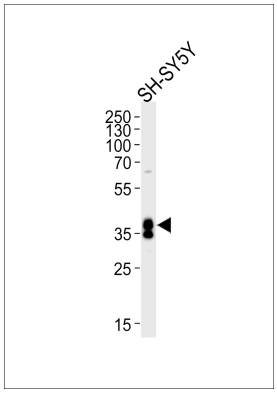
Background

This gene encodes a protein containing two conserved tandem RNA recognition motifs. Similar proteins in other species function as RNA-binding proteins and play central roles in posttranscriptional gene regulation. Expression of this gene has been correlated with the grade of the malignancy and proliferative activity in gliomas and melanomas. A pseudogene for this gene is located on chromosome 11q13.

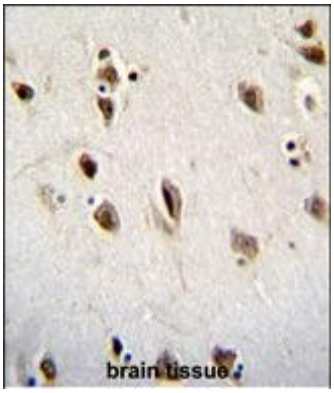
References

Fan, L.F., et al. Int J Colorectal Dis 25(1):17-23(2010)
de Sousa Abreu, R., et al. J. Biol. Chem. 284(18):12125-12135(2009)
Murayama, M., et al. J. Gastroenterol. 44(3):173-182(2009)
Gotte, M., et al. J. Pathol. 215(3):317-329(2008)
Sanchez-Diaz, P.C., et al. BMC Cancer 8, 280 (2008) :

Images

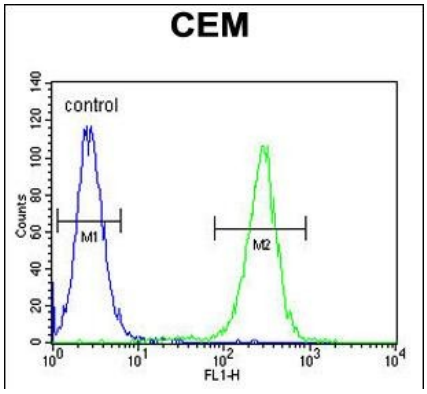


Western blot analysis of lysate from SH□SY5Y cell line, using MSI1 Antibody (N-term)(Cat. #AP11965a). AP11965a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



MSI1 Antibody (N-term) (Cat. #AP11965a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of MSI1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

MSI1 Antibody (N-term) (Cat. #AP11965a) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated



goat-anti-rabbit secondary antibodies were used for the analysis.